ELSEVIER

Journal of Molecular Catalysis A: Chemical 112 (1996) 483–485

JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL

Author Index

Abe, T., Taguchi, F., Yoshida, T., Tokita, S., Schnurpfeil, G., Wöhrle, D. and Kaneko, M.
Electrocatalytic CO_2 reduction by cobalt octabutoxyphthalocyanine coated on graphite electrode (112) 55
Aboulayt, A., see Ziolek, M. (112) 125
Adamski, A., see Sojka, Z. (112) 469
Alper, H., see El Ali, B. (112) 195
Ansari, A., Peral, J., Domènech, X., Rodríguez-Clemente, R. and Casado, J.
Oxidation of S(IV) to S(VI) under Fenton, photo-Fenton and γ-FeOOH photocatalized conditions (112) 269
Augustine, R.L. and Tanielyan, S.K.
Enantioselective heterogeneous catalysis. 2. Examination of the formation of the individual (R) and (S) lactates in the cinchonidine modified platinum hydrogenation of pyruvate (112) 93
Babushkin, D.E., see Sobolev, A.P. (112) 253
Bae, S.-h., see Cheong, M. (112) 389
Bal'zhinimaev, B.S., see Pinaeva, L.G. (112) 115
Bartók, M., see Martinek, T. (112) 85
Basset, J.-M., see Lesage, P. (112) 303
Basset, J.M., see Lesage, P. (112) 431
Bianchi, M., see Rosi, L. (112) 367
Bielański, A., see Dziembaj, R. (112) 423
Bini, A., see Rosi, L. (112) 367
Blaser, H.-U., see Studer, M. (112) 437
Bolzacchini, E., Chiavetto, L.B., Canevali, C., Morazzoni, F., Orlandi, M. and Rindone, B.
Oxidation of propenoidic phenols catalysed by *N,N'*-ethylenebis(salicylideneiminato)cobalt(II) [Cosalen]: reactivity and spectroscopic studies (112) 347
Borst, L., see Wehman, P. (112) 23
Bréhéret, A., see Pinel, C. (112) L157
Bruni, S., see Di Serio, M. (112) 235
Budneva, A.A., see Pinaeva, L.G. (112) 115
Camus, A., Garozzo, M.S., Marsich, N. and Mari, M.
Oxidative coupling of 2,6-dimethylphenol to polyphenylene ether catalyzed by a dinuclear Cu(II)dihydroxo-diiodo complex of 2,2'-dipyridylamine (112) 353
Candy, J.-P., see Lesage, P. (112) 303
Candy, J.P., see Lesage, P. (112) 431
Canevali, C., see Bolzacchini, E. (112) 347
Casado, J., see Ansari, A. (112) 269
Cativiela, C., Fraile, J.M., García, J.I. and Mayoral, J.A.
A new titanium–silica catalyst for the epoxidation of alkenes (112) 259
Che, M., see Sojka, Z. (112) 469
Chen, S.-M.
The Catalytic autoxidation of sulfite by supported water-soluble iron porphyrins (112) 277
Cheong, M., Bae, S.-h. and Lee, K.B.
Phosphorus pentoxide promotion of iridium-catalysed rearrangement of methyl formate in the absence of initial CO pressure (112) 389
Chiavetto, L.B., see Bolzacchini, E. (112) 347
Choplin, A., see Leyrit, P. (112) 395
Choudary, B.M. and Reddy, P.N.
A new alkyl peroxovanadium catalyst for selective oxidation of nitriles to α-oxo nitriles: A functional mimic of Cyt-P.450 (112) 385
Deganello, G., see Duca, D. (112) 413
Di Serio, M., Iengo, P., Gobetto, R., Bruni, S. and Santacesaria, E.
Ethoxylation of fatty alcohols promoted by an aluminum alkoxide sulphate catalyst (112) 235
Domen, K., see Maruya, K.-i. (112) 143
Domènech, X., see Ansari, A. (112) 269
Duca, D. and Deganello, G.
Analysis by size exclusion chromatography (SEC) of catalytic materials: The fractal properties and the pore size distribution of pumice (112) 413
Durand, R., see Moreau, C. (112) 133
Dziembaj, R., Małecka, A., Piwowarska, Z. and Bielański, A.
XPS study of polyaniline supported dodecatungstosilicic acid catalyst (112) 423
El Ali, B., Vasapollo, G. and Alper, H.
A novel Rh–PCy_3–CO–HCOOH catalytic system for the regioselective conversion of alkenes to aldehydes (112) 195
Flodström, A.S., see Lu, H. (112) 447
Flodström, A.S., see Lu, H. (112) 459
Fort, Y., Silvestri, A. and Graindorge, H.
Unprecedented effects of solvent and temperature of preparation on hydrosilylating properties of alumina-supported platinum catalyst (112) 311
Fraile, J.M., see Cativiela, C. (112) 259
Francis, J.W. and Henry, P.M.
Palladium(II)-catalyzed exchange and isomerization reactions. XVI. The kinetics and stereochemistry of the oxidation and isomerization of hexafluoro allylic alcohols in aqueous solution catalyzed by $PdCl_3$(pyridine)$^-$ (112) 317
Frediani, P., see Rosi, L. (112) 367
Freidanck, F., see Kaminsky, W. (112) 37
Ganzerla, R., see Storaro, L. (112) 43
García, J.I., see Cativiela, C. (112) 259

Garozzo, M.S., see Camus, A. (112) 353
Gendreau-Diaz, N., see Pinel, C. (112) L157
Geneste, P., see Moreau, C. (112) 133
Gobetto, R., see Di Serio, M. (112) 235
Graindorge, H., see Fort, Y. (112) 311
Hada, M., see Zhanpeisov, N.U. (112) 63
Haraoka, T., see Maruya, K.-i. (112) 143
Henry, P.M., see Francis, J.W. (112) 317
Hirigoyen, C., see Lesage, P. (112) 303
Hirigoyen, C., see Lesage, P. (112) 431
Ho, Y.-S., Wang, C.-B. and Yeh, C.-T.
Calorimetric study on interaction of dioxygen with alumina supported palladium (112) 287
Hu, C.-C., see Hung, W.-H. (112) 1
Huang, L.
IR studies on the preservation of $RhCo_3$ clusters on the surface of SiO_2 (112) 69
Humblot, F., see Lesage, P. (112) 303
Humblot, F., see Lesage, P. (112) 431
Hung, W.-H., Hu, C.-C. and Liu, C.-Y.
Hydrolysis catalyzed with a resin containing histidine groups (112) 1
Hwang, C.-P. and Yeh, C.-T.
Platinum–oxide species formed by oxidation of platinum crystallites supported on alumina (112) 295
Iengo, P., see Di Serio, M. (112) 235
Ishida, H. and Seri, K.-i.
Catalytic activity of lanthanoide(III) ions for dehydration of D-glucose to 5-(hydroxymethyl)furfural (112) L163
Jaroszewski, M., see Szymańska-Buzar, T. (112) 203
Kamer, P.C.J., see Wehman, P. (112) 23
Kaminsky, W., Schauwienold, A.-M. and Freidanck, F.
Photoinduced *rac/meso* interconversions of bridged bis(indenyl) zirconium dichlorides (112) 37
Kaneko, M., see Abe, T. (112) 55
Katona, T., see Martinek, T. (112) 85
Kilner, M. and Winter, N.J.
Studies of the rhodium iodide catalysed hydrocarboxylation of ethene (112) 327
Korchowiec, J., see Nalewajski, R.F. (112) 167
Kujawa, J., see Ziolek, M. (112) 125
Lavalley, J.C., see Ziolek, M. (112) 125
Leconte, M., see Lesage, P. (112) 303
Lee, K.B., see Cheong, M. (112) 389
Lemaire, M., see Pinel, C. (112) L157
Lenarda, M., see Storaro, L. (112) 43
Lesage, P., Candy, J.-P., Hirigoyen, C., Humblot, F., Leconte, M. and Basset, J.-M.
An example of the valorization of terpenes: The selective isomerization of 3-carene to 2-carene in the presence of silica supported nickel catalysts modified by tetrabutyl tin (112) 303
Lesage, P., Candy, J.P., Hirigoyen, C., Humblot, F. and Basset, J.M.
Selective dehydrogenation of dipentene (*R*-(+)-limonene) into paracymene on silica supported palladium assisted by α-olefins as hydrogen acceptor (112) 431
Leyrit, P., McGill, C., Quignard, F. and Choplin, A.
A novel heterogeneous molecular catalyst for the Meerwein–Ponndorf–Verley and Oppenauer reactions (112) 395
Li, Z., see Zhang, J.Z. (112) 9
Likholobov, V.A., see Moroz, B.L. (112) 217
Liu, C., Ye, X., Zhan, R. and Wu, Y.
Phenol hydroxylation by iron(II)phenanthroline: The reaction mechanism (112) 15
Liu, C.-Y., see Hung, W.-H. (112) 1
Liu, H., see Yu, W. (112) 105
Lovas, A., see Martinek, T. (112) 85
Lu, H., Pradier, C.-M. and Flodström, A.S.
Catalytic reduction of nitric oxide on copper. Part I (112) 447
Lu, H., Pradier, C.-M. and Flodström, A.S.
Catalytic reduction of nitric oxide over copper. Part II: Influence of sulfur dioxide (112) 459
Małecka, A., see Dziembaj, R. (112) 423
Mari, M., see Camus, A. (112) 353
Marsich, N., see Camus, A. (112) 353
Martinek, T., Molnár, Á., Katona, T., Bartók, M. and Lovas, A.
Amorphous alloy catalysis IX. Isomerization and hydrogenation of allyl alcohol over an amorphous copper–zirconium alloy (112) 85
Maruya, K.-i., Takasawa, A., Haraoka, T., Domen, K. and Onishi, T.
Role of methoxide species in *iso*butene formation from CO and H_2 over oxide catalystsMethoxide species in *iso*butene formation (112) 143
Mayoral, J.A., see Cativiela, C. (112) 259
McGill, C., see Leyrit, P. (112) 395
Miura, M., see Satoh, T. (112) 211
Molnár, Á., see Martinek, T. (112) 85
Morazzoni, F., see Bolzacchini, E. (112) 347
Moreau, C., Durand, R., Geneste, P. and Mseddi, S.
Determination of the acid strength of solid catalysts in water by means of a kinetic tracer (112) 133
Moroz, B.L., Moudrakovski, I.L. and Likholobov, V.A.
Heterogenized catalysts for olefin hydroformylation containing cobalt and palladium–cobalt complexes anchored on phosphinated SiO_2: a ^{13}C solid-state NMR study (112) 217
Moudrakovski, I.L., see Moroz, B.L. (112) 217
Mseddi, S., see Moreau, C. (112) 133
Nakatsuji, H., see Zhanpeisov, N.U. (112) 63
Nalewajski, R.F. and Korchowiec, J.
Charge response study of the toluene–$[V_2O_5]$ chemisorption clusters: Two reactant approach (112) 167
Nomura, M., see Satoh, T. (112) 211
Onishi, T., see Maruya, K.-i. (112) 143
Orlandi, M., see Bolzacchini, E. (112) 347
Paukshtis, E.A., see Pinaeva, L.G. (112) 115
Peral, J., see Ansari, A. (112) 269
Pinaeva, L.G., Suknev, A.P., Budneva, A.A., Paukshtis, E.A. and Bal'zhinimaev, B.S.
On the role of oxygen in the reaction of NO reduction by NH_3 over monolayer V_2O_5–TiO_2 catalyst (112) 115
Pinel, C., Gendreau-Diaz, N., Bréhéret, A. and Lemaire, M.
Asymmetric hydrogenation of α-keto ester with diamine-complexed metal (112) L157
Piwowarska, Z., see Dziembaj, R. (112) 423
Pradier, C.-M., see Lu, H. (112) 447
Pradier, C.-M., see Lu, H. (112) 459
Quignard, F., see Leyrit, P. (112) 395
Reddy, P.N., see Choudary, B.M. (112) 385
Righini, G., see Storaro, L. (112) 43

Rindone, B., see Bolzacchini, E. (112) 347
Rodríguez-Clemente, R., see Ansari, A. (112) 269
Roessner, F. and Roland, U.
Hydrogen spillover in bifunctional catalysis (112) 401
Roland, U., see Roessner, F. (112) 401
Rosi, L., Bini, A., Frediani, P., Bianchi, M. and Salvini, A.
Functionalized phosphine substituted cobalt carbonyls. Synthesis, characterization and catalytic activity in the hydroformylation of olefins (112) 367
Salvini, A., see Rosi, L. (112) 367
Santacesaria, E., see Di Serio, M. (112) 235
Satoh, T., Miura, M. and Nomura, M.
Palladium-catalyzed arylation of secondary allylic alcohols in the presence of copper(II)triflate and triphenylphosphine: Selective synthesis of β-aryl-α,β-unsaturated ketones (112) 211
Saur, O., see Ziolek, M. (112) 125
Schauwienold, A.-M., see Kaminsky, W. (112) 37
Schnurpfeil, G., see Abe, T. (112) 55
Seri, K.-i., see Ishida, H. (112) L163
Shubin, A.A., see Sobolev, A.P. (112) 253
Silvestri, A., see Fort, Y. (112) 311
Sobolev, A.P., Babushkin, D.E., Shubin, A.A. and Talsi, E.P.
EPR and ^{1}H NMR spectroscopic characterization of the ferric species formed in the iron picolinate/(pyridine/acetic acid)/HOOH catalytic system for the direct ketonization of methylenic carbons (112) 253
Sojka, Z., Adamski, A. and Che, M.
Use of phosphines as versatile molecular probes for studying the coordination states of molybdenum ions in Mo/SiO_2 catalysts by EPR (112) 469
Storaro, L., Ganzerla, R., Lenarda, M., Zanoni, R. and Righini, G.
Highly selective vapor phase propene hydroformylation catalyzed by Rh/B and Rh–Co/B systems on silica (112) 43
Studer, M. and Blaser, H.-U.
Influence of catalyst type, solvent, acid and base on the selectivity and rate in the catalytic debenzylation of 4-chloro-*N,N*-dibenzyl aniline with Pd/C and H_2 (112) 437
Suknev, A.P., see Pinaeva, L.G. (112) 115
Szymańska-Buzar, T., Jaroszewski, M., Wilgocki, M. and Ziółkowski, J.J.
Reactivity of bis(alkene)tetracarbonyl complexes of tungsten: evidence for alkene to π-allyl hydride rearrangement (112) 203
Taguchi, F., see Abe, T. (112) 55
Takasawa, A., see Maruya, K.-i. (112) 143
Talsi, E.P., see Sobolev, A.P. (112) 253
Tanielyan, S.K., see Augustine, R.L. (112) 93
Tokita, S., see Abe, T. (112) 55
Van Leeuwen, P.W.N.M., see Wehman, P. (112) 23
Vasapollo, G., see El Ali, B. (112) 195
Wang, C.-B., see Ho, Y.-S. (112) 287
Wang, C.Y., see Zhang, J.Z. (112) 9
Wang, H., see Zhang, J.Z. (112) 9
Wang, Y., see Yu, W. (112) 105
Wehman, P., Borst, L., Kamer, P.C.J. and Van Leeuwen, P.W.N.M.
Influence of an aromatic carboxylic acid as cocatalyst in the palladium-catalysed reductive carbonylation of aromatic nitro compounds (112) 23
Wilgocki, M., see Szymańska-Buzar, T. (112) 203
Winter, N.J., see Kilner, M. (112) 327
Wöhrle, D., see Abe, T. (112) 55
Wu, Y., see Liu, C. (112) 15
Ye, X., see Liu, C. (112) 15
Yeh, C.-T., see Ho, Y.-S. (112) 287
Yeh, C.-T., see Hwang, C.-P. (112) 295
Yoshida, T., see Abe, T. (112) 55
Yu, W., Wang, Y., Liu, H. and Zheng, W.
Preparation and characterization of polymer-protected Pt/Co bimetallic colloids and their catalytic properties in the selective hydrogenation of cinnamaldehyde (112) 105
Zanoni, R., see Storaro, L. (112) 43
Zhan, R., see Liu, C. (112) 15
Zhang, J.Z., Li, Z., Wang, H. and Wang, C.Y.
Homogeneous catalytic synthesis of formic acid (salts) by hydrogenation of CO_2 with H_2 in the presence of ruthenium species (112) 9
Zhanpeisov, N.U., Nakatsuji, H. and Hada, M.
Cluster quantum-chemical MINDO/3 study of the nature of hydroxyl groups on a calcium oxide surface (112) 63
Zheng, W., see Yu, W. (112) 105
Ziolek, M., Kujawa, J., Saur, O., Aboulayt, A. and Lavalley, J.C.
Influence of sulfur dioxide adsorption on the surface properties of metal oxides (112) 125
Ziółkowski, J.J., see Szymańska-Buzar, T. (112) 203

ELSEVIER

Journal of Molecular Catalysis A: Chemical 112 (1996) 487–492

JOURNAL OF MOLECULAR CATALYSIS A: CHEMICAL

Subject Index

α,β-unsaturated ketones
Arylation; Allylic alcohols; Palladium; Copper triflate (Satoh, T. (112) 211)
Acetals
Zeolites; Resins; Acidity; Hydrolysis (Moreau, C. (112) 133)
Acetic acid
Methyl formate; Phosphorus pentoxide; Iridium catalyst (Cheong, M. (112) 389)
Acid–base properties
SO_2 adsorption; Metal oxides; IR spectroscopy; Catalytic activity (Ziolek, M. (112) 125)
Acidic cocatalysts
Nitro compounds; Palladium catalyst; Nitrogen ligands; Reductive carbonylation (Wehman, P. (112) 23)
Acidity
Zeolites; Resins; Hydrolysis; Acetals (Moreau, C. (112) 133)
Alcohol oxidation
Hydrogen transfer reduction; Silica supported zirconium catalysts; Ketone reduction (Leyrit, P. (112) 395)
Aldehydes
Rhodium; Carbon monoxide; Formic acid; Regioselectivity; Alkene conversion (El Ali, B. (112) 195)
Alkene conversion
Rhodium; Carbon monoxide; Formic acid; Regioselectivity; Aldehydes (El Ali, B. (112) 195)
Alkyl peroxovanadium complex
Catalytic oxidation; Benzyl cyanides; Aroyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
Allyl alcohol
Isomerization; Hydrogenation; Amorphous alloy; Copper–zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
π-Allyl hydride intermediate
Isomerization; Metathesis; Tungsten; Bis(alkene) complexes (Szymańska-Buzar, T. (112) 203)
Allylic alcohols
Arylation; α,β-unsaturated ketones; Palladium; Copper triflate (Satoh, T. (112) 211)
Aluminium catalysts
Ethoxylation; Fatty alcohols (Di Serio, M. (112) 235)
Amorphous alloy
Isomerization; Hydrogenation; Allyl alcohol; Copper–zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
Anchored complexes
^{13}C NMR; Cobalt; Ethylene; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
Aroyl cyanides
Alkyl peroxovanadium complex; Catalytic oxidation; Benzyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
Arylation
Allylic alcohols; α,β-unsaturated ketones; Palladium; Copper triflate (Satoh, T. (112) 211)
Asymmetric hydrogenation
Diamine ligands; Cyclodextrin (Pinel, C. (112) L157)
Benzyl cyanides
Alkyl peroxovanadium complex; Catalytic oxidation; Aroyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
Bifunctional catalysis
Reaction mechanism; Hydrogen spillover; Cyclohexane conversion (Roessner, F. (112) 401)
Bis(alkene) complexes
π-Allyl hydride intermediate; Isomerization; Metathesis; Tungsten (Szymańska-Buzar, T. (112) 203)
Boron
Silica; Propene; Hydroformylation; Rhodium; Cobalt (Storaro, L. (112) 43)
Calcium oxide
Water; Hydroxyl group stretching frequencies; MINDO/3 study (Zhanpeisov, N.U. (112) 63)
Calorimetry
Heat of adsorption; Heat of oxidation; Enthalpy of PdO formation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
Carbon dioxide hydrogenation
Formic acid; Ruthenium chloride; Ruthenium complexes (Zhang, J.Z. (112) 9)
Carbon monoxide
Rhodium; Formic acid; Regioselectivity; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
Carbonyl
Hydroformylation; Cobalt; Functionalized phosphine; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
Carene isomerization
Ni/SiO_2 catalyst; Tetra-*n*-butyl tin modified catalyst; Surface organometallic chemistry (Lesage, P. (112) 303)
Catalysis
Hydroformylation; Cobalt; Carbonyl; Functionalized phosphine; Homogeneous; Olefin (Rosi, L. (112) 367)
Catalyst
Lanthanoide; Glucose; Furfural (Ishida, H. (112) L163)
Catalyst support characterization
Size exclusion chromatography; Pumice; Metal supported catalyst; Surface (Duca, D. (112) 413)
Catalytic activity
Acid–base properties; SO_2 adsorption; Metal oxides; IR spectroscopy (Ziolek, M. (112) 125)
Catalytic debenzylation
Pd/C; Chemoselectivity; Kinetic analysis; Influence of reaction parameters (Studer, M. (112) 437)

Catalytic mechanism
Electrocatalytic CO_2 reduction; Cobalt octabutoxyphthalocyanine; Potential-step chronoamperospectroscopy (PSCAS) (Abe, T. (112) 55)
Catalytic oxidation
Alkyl peroxovanadium complex; Benzyl cyanides; Aroyl cyanides; Peroxo benzyl cyanides (Choudary, B.M. (112) 385)
Chemoselectivity
Catalytic debenzylation; Pd/C; Kinetic analysis; Influence of reaction parameters (Studer, M. (112) 437)
Cinchona alkaloid modifiers
Enantioselective hydrogenation; Pyruvate hydrogenation (Augustine, R.L. (112) 93)
Cinnamaldehyde
Pt/Co bimetallic colloid; Selective hydrogenation (Yu, W. (112) 105)
^{13}C NMR
Anchored complexes; Cobalt; Ethylene; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
Cobalt
Silica; Propene; Hydroformylation; Rhodium; Boron (Storaro, L. (112) 43)
Anchored complexes; ^{13}C NMR; Ethylene; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
Hydroformylation; Carbonyl; Functionalized phosphine; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
Cobalt octabutoxyphthalocyanine
Electrocatalytic CO_2 reduction; Catalytic mechanism; Potential-step chronoamperospectroscopy (PSCAS) (Abe, T. (112) 55)
CO hydrogenation
Oxide catalysts; *Iso*butene formation; ^{13}C tracer study (Maruya, K.-i. (112) 143)
Coordination state
EPR; SiO_2; Mo^{5+} ions; Phosphines; Molecular probes (Sojka, Z. (112) 469)
Copper
Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper–zirconium; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
NO reduction; Environment; Hydrocarbon oxidation; Surface characterization (Lu, H. (112) 447)
Nitric oxide reduction; Sulfur dioxide; Isobutene; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)
Copper triflate
Arylation; Allylic alcohols; α,β-unsaturated ketones; Palladium (Satoh, T. (112) 211)
Copper–zirconium
Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
Cosalen
Phenol; Oxidation; EPR study (Bolzacchini, E. (112) 347)
^{13}C tracer study
CO hydrogenation; Oxide catalysts; *Iso*butene formation (Maruya, K.-i. (112) 143)
Cumene cracking
Heteropolyacid; Keggin unit; Polymer; Polyaniline; XPS (Dziembaj, R. (112) 423)
Cyclodextrin
Asymmetric hydrogenation; Diamine ligands (Pinel, C. (112) L157)
Cyclohexane
Ferric peroxo complexes; EPR; NMR; Oxidation (Sobolev, A.P. (112) 253)
Cyclohexane conversion
Bifunctional catalysis; Reaction mechanism; Hydrogen spillover (Roessner, F. (112) 401)
Dehydrogenation
R-(+)-limonene; Paracymene; Pd/SiO_2; Hydrogen transfer reaction (Lesage, P. (112) 431)
Diamine ligands
Asymmetric hydrogenation; Cyclodextrin (Pinel, C. (112) L157)
2,6-dimethylphenol oxidation
Dinuclear Cu(II)dihydroxo complexes; Homogeneous catalysis; Polyphenylene ether (Camus, A. (112) 353)
Dinuclear Cu(II)dihydroxo complexes
2,6-dimethylphenol oxidation; Homogeneous catalysis; Polyphenylene ether (Camus, A. (112) 353)
Electrocatalytic CO_2 reduction
Cobalt octabutoxyphthalocyanine; Catalytic mechanism; Potential-step chronoamperospectroscopy (PSCAS) (Abe, T. (112) 55)
Enantioselective hydrogenation
Pyruvate hydrogenation; Cinchona alkaloid modifiers (Augustine, R.L. (112) 93)
Enthalpy of PdO formation
Calorimetry; Heat of adsorption; Heat of oxidation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
Environment
NO reduction; Copper; Hydrocarbon oxidation; Surface characterization (Lu, H. (112) 447)
Nitric oxide reduction; Sulfur dioxide; Copper; Isobutene; X-ray photoelectron spectroscopy (Lu, H. (112) 459)
Epoxidation
Titanium silica; TBHP; Non-activated alkenes (Cativiela, C. (112) 259)
EPR
Ferric peroxo complexes; NMR; Oxidation; Cyclohexane (Sobolev, A.P. (112) 253)
Coordination state; SiO_2; Mo^{5+} ions; Phosphines; Molecular probes (Sojka, Z. (112) 469)
EPR study
Cosalen; Phenol; Oxidation (Bolzacchini, E. (112) 347)
Ethene hydrocarboxylation
Propanoic acid; Rhodium iodide (Kilner, M. (112) 327)
Ethoxylation
Fatty alcohols; Aluminium catalysts (Di Serio, M. (112) 235)
Ethylene
Anchored complexes; ^{13}C NMR; Cobalt; Hydroformylation; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
Fatty alcohols
Ethoxylation; Aluminium catalysts (Di Serio, M. (112) 235)
Fenton reactions
Oxidation; Sulphur; Photocatalysis; Iron; Peroxide (Ansari, A. (112) 269)

Ferric peroxo complexes
EPR; NMR; Oxidation; Cyclohexane (Sobolev, A.P. (112) 253)
Formic acid
Carbon dioxide hydrogenation; Ruthenium chloride; Ruthenium complexes (Zhang, J.Z. (112) 9)
Rhodium; Carbon monoxide; Regioselectivity; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
Functionalized phosphine
Hydroformylation; Cobalt; Carbonyl; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
Furfural
Lanthanoide; Catalyst; Glucose (Ishida, H. (112) L163)
Glucose
Lanthanoide; Catalyst; Furfural (Ishida, H. (112) L163)
Graphic plot
TPR; TPD; Platinum oxide (Hwang, C.-P. (112) 295)
Heat of adsorption
Calorimetry; Heat of oxidation; Enthalpy of PdO formation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
Heat of oxidation
Calorimetry; Heat of adsorption; Enthalpy of PdO formation; Phenomena of oxidation (Ho, Y.-S. (112) 287)
Heteropolyacid
Keggin unit; Polymer; Polyaniline; Cumene cracking; XPS (Dziembaj, R. (112) 423)
Histidine-containing resin
Hydrolysis; *p*-Nitrophenyl acetate (Hung, W.-H. (112) 1)
Homogeneous
Hydroformylation; Cobalt; Carbonyl; Functionalized phosphine; Catalysis; Olefin (Rosi, L. (112) 367)
Homogeneous catalysis
2,6-dimethylphenol oxidation; Dinuclear Cu(II)dihydroxo complexes; Polyphenylene ether (Camus, A. (112) 353)
Hydrocarbon oxidation
NO reduction; Copper; Environment; Surface characterization (Lu, H. (112) 447)
Hydroformylation
Silica; Propene; Rhodium; Cobalt; Boron (Storaro, L. (112) 43)
Anchored complexes; ^{13}C NMR; Cobalt; Ethylene; Mechanism; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
Cobalt; Carbonyl; Functionalized phosphine; Catalysis; Homogeneous; Olefin (Rosi, L. (112) 367)
Hydrogenation
Isomerization; Allyl alcohol; Amorphous alloy; Copper–zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
Hydrogen spillover
Bifunctional catalysis; Reaction mechanism; Cyclohexane conversion (Roessner, F. (112) 401)
Hydrogen transfer reaction
R-(+)-limonene; Dehydrogenation; Paracymene; Pd/SiO_2 (Lesage, P. (112) 431)
Hydrogen transfer reduction
Silica supported zirconium catalysts; Alcohol oxidation; Ketone reduction (Leyrit, P. (112) 395)
Hydrolysis
Histidine-containing resin; *p*-Nitrophenyl acetate (Hung, W.-H. (112) 1)
Zeolites; Resins; Acidity; Acetals (Moreau, C. (112) 133)
Hydrosilylating properties
Platinum/alumina; Solvent effects; Temperature effects (Fort, Y. (112) 311)
Hydroxyl group stretching frequencies
Calcium oxide; Water; MINDO/3 study (Zhanpeisov, N.U. (112) 63)
Influence of reaction parameters
Catalytic debenzylation; Pd/C; Chemoselectivity; Kinetic analysis (Studer, M. (112) 437)
Iridium catalyst
Methyl formate; Acetic acid; Phosphorus pentoxide (Cheong, M. (112) 389)
Iron
Oxidation; Sulphur; Fenton reactions; Photocatalysis; Peroxide (Ansari, A. (112) 269)
Iron(II)-1,10-phenanthroline
Phenol hydroxylation; Radical substitution (Liu, C. (112) 15)
IR spectroscopy
SCR reaction; Vanadia monolayer; Transient response technique (Pinaeva, L.G. (112) 115)
Acid–base properties; SO_2 adsorption; Metal oxides; Catalytic activity (Ziolek, M. (112) 125)
Isobutene
Nitric oxide reduction; Sulfur dioxide; Copper; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)
*Iso*butene formation
CO hydrogenation; Oxide catalysts; ^{13}C tracer study (Maruya, K.-i. (112) 143)
Isomerization
Hydrogenation; Allyl alcohol; Amorphous alloy; Copper–zirconium; Copper; Propanal; 1-propanol; Selectivity (Martinek, T. (112) 85)
π-Allyl hydride intermediate; Metathesis; Tungsten; Bis(alkene) complexes (Szymańska-Buzar, T. (112) 203)
Wacker; Oxidation; Stereochemistry; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)
Keggin unit
Heteropolyacid; Polymer; Polyaniline; Cumene cracking; XPS (Dziembaj, R. (112) 423)
Ketone reduction
Hydrogen transfer reduction; Silica supported zirconium catalysts; Alcohol oxidation (Leyrit, P. (112) 395)
Kinetic analysis
Catalytic debenzylation; Pd/C; Chemoselectivity; Influence of reaction parameters (Studer, M. (112) 437)
Lanthanoide
Catalyst; Glucose; Furfural (Ishida, H. (112) L163)
Mechanism
Anchored complexes; ^{13}C NMR; Cobalt; Ethylene; Hydroformylation; Palladium; Phosphinated silica (Moroz, B.L. (112) 217)
Metallocenes
Stability; Photoconversion; Olefin polymerization (Kaminsky, W. (112) 37)
Metal oxides
Acid–base properties; SO_2 adsorption; IR spectroscopy; Catalytic activity (Ziolek, M. (112) 125)
Metal supported catalyst
Size exclusion chromatography; Catalyst support characterization; Pumice; Surface (Duca, D. (112) 413)

Metathesis
π-Allyl hydride intermediate; Isomerization; Tungsten; Bis(alkene) complexes (Szymańska-Buzar, T. (112) 203)
Methyl formate
Acetic acid; Phosphorus pentoxide; Iridium catalyst (Cheong, M. (112) 389)
MINDO/3 study
Calcium oxide; Water; Hydroxyl group stretching frequencies (Zhanpeisov, N.U. (112) 63)
Modified catalyst
Wacker; Isomerization; Oxidation; Stereochemistry; Palladium(II) (Francis, J.W. (112) 317)
Mo^{5+} ions
EPR; Coordination state; SiO_2; Phosphines; Molecular probes (Sojka, Z. (112) 469)
Molecular probes
EPR; Coordination state; SiO_2; Mo^{5+} ions; Phosphines (Sojka, Z. (112) 469)
Ni/SiO_2 catalyst
Carene isomerization; Tetra-*n*-butyl tin modified catalyst; Surface organometallic chemistry (Lesage, P. (112) 303)
Nitric oxide reduction
Sulfur dioxide; Copper; Isobutene; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)
Nitro compounds
Acidic cocatalysts; Palladium catalyst; Nitrogen ligands; Reductive carbonylation (Wehman, P. (112) 23)
Nitrogen ligands
Acidic cocatalysts; Nitro compounds; Palladium catalyst; Reductive carbonylation (Wehman, P. (112) 23)
p-Nitrophenyl acetate
Histidine-containing resin; Hydrolysis (Hung, W.-H. (112) 1)
NMR
Ferric peroxo complexes; EPR; Oxidation; Cyclohexane (Sobolev, A.P. (112) 253)
Non-activated alkenes
Epoxidation; Titanium silica; TBHP (Cativiela, C. (112) 259)
NO reduction
Copper; Environment; Hydrocarbon oxidation; Surface characterization (Lu, H. (112) 447)
Olefin
Hydroformylation; Cobalt; Carbonyl; Functionalized phosphine; Catalysis; Homogeneous (Rosi, L. (112) 367)
Olefin polymerization
Metallocenes; Stability; Photoconversion (Kaminsky, W. (112) 37)
Oxidation
Ferric peroxo complexes; EPR; NMR; Cyclohexane (Sobolev, A.P. (112) 253)
Sulphur; Fenton reactions; Photocatalysis; Iron; Peroxide (Ansari, A. (112) 269)
Wacker; Isomerization; Stereochemistry; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)
Cosalen; Phenol; EPR study (Bolzacchini, E. (112) 347)
Oxide catalysts
CO hydrogenation; *Iso*butene formation; ^{13}C tracer study (Maruya, K.-i. (112) 143)
Palladium
Arylation; Allylic alcohols; α,β-unsaturated ketones; Copper triflate (Satoh, T. (112) 211)
Anchored complexes; ^{13}C NMR; Cobalt; Ethylene; Hydroformylation; Mechanism; Phosphinated silica (Moroz, B.L. (112) 217)
Palladium catalyst
Acidic cocatalysts; Nitro compounds; Nitrogen ligands; Reductive carbonylation (Wehman, P. (112) 23)
Paracymene
R-(+)-limonene; Dehydrogenation; Pd/SiO_2; Hydrogen transfer reaction (Lesage, P. (112) 431)
Pd/C
Catalytic debenzylation; Chemoselectivity; Kinetic analysis; Influence of reaction parameters (Studer, M. (112) 437)
Pd/SiO_2
R-(+)-limonene; Dehydrogenation; Paracymene; Hydrogen transfer reaction (Lesage, P. (112) 431)
Peroxide
Oxidation; Sulphur; Fenton reactions; Photocatalysis; Iron (Ansari, A. (112) 269)
Peroxo benzyl cyanides
Alkyl peroxovanadium complex; Catalytic oxidation; Benzyl cyanides; Aroyl cyanides (Choudary, B.M. (112) 385)
Phenol
Cosalen; Oxidation; EPR study (Bolzacchini, E. (112) 347)
Phenol hydroxylation
Iron(II)-1,10-phenanthroline; Radical substitution (Liu, C. (112) 15)
Phenomena of oxidation
Calorimetry; Heat of adsorption; Heat of oxidation; Enthalpy of PdO formation (Ho, Y.-S. (112) 287)
Phosphinated silica
Anchored complexes; ^{13}C NMR; Cobalt; Ethylene; Hydroformylation; Mechanism; Palladium (Moroz, B.L. (112) 217)
Phosphines
EPR; Coordination state; SiO_2; Mo^{5+} ions; Molecular probes (Sojka, Z. (112) 469)
Phosphorus pentoxide
Methyl formate; Acetic acid; Iridium catalyst (Cheong, M. (112) 389)
Photocatalysis
Oxidation; Sulphur; Fenton reactions; Iron; Peroxide (Ansari, A. (112) 269)
Photoconversion
Metallocenes; Stability; Olefin polymerization (Kaminsky, W. (112) 37)
Platinum/alumina
Hydrosilylating properties; Solvent effects; Temperature effects (Fort, Y. (112) 311)
Platinum oxide
TPR; TPD; Graphic plot (Hwang, C.-P. (112) 295)
Polyaniline
Heteropolyacid; Keggin unit; Polymer; Cumene cracking; XPS (Dziembaj, R. (112) 423)
Polymer
Heteropolyacid; Keggin unit; Polyaniline; Cumene cracking; XPS (Dziembaj, R. (112) 423)
Polyphenylene ether
2,6-dimethylphenol oxidation; Dinuclear Cu(II)dihydroxo complexes; Homogeneous catalysis (Camus, A. (112) 353)
Propanal
Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper–zirconium; Copper; 1-propanol; Selectivity (Martinek, T. (112) 85)
Propanoic acid
Ethene hydrocarboxylation; Rhodium iodide (Kilner, M. (112) 327)

1-propanol
Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper–zirconium; Copper; Propanal; Selectivity (Martinek, T. (112) 85)
Propene
Silica; Hydroformylation; Rhodium; Cobalt; Boron (Storaro, L. (112) 43)
Pt/Co bimetallic colloid
Selective hydrogenation; Cinnamaldehyde (Yu, W. (112) 105)
Pumice
Size exclusion chromatography; Catalyst support characterization; Metal supported catalyst; Surface (Duca, D. (112) 413)
Pyruvate hydrogenation
Enantioselective hydrogenation; Cinchona alkaloid modifiers (Augustine, R.L. (112) 93)
Radical substitution
Phenol hydroxylation; Iron(II)-1,10-phenanthroline (Liu, C. (112) 15)
Reaction mechanism
Bifunctional catalysis; Hydrogen spillover; Cyclohexane conversion (Roessner, F. (112) 401)
Reductive carbonylation
Acidic cocatalysts; Nitro compounds; Palladium catalyst; Nitrogen ligands (Wehman, P. (112) 23)
Regeneration and dissociation of $RhCo_3(CO)_{12}$
SiO_2-physisorbed $RhCo_3(CO)_{12}$; Stabilization of $RhCo_3$ (Huang, L. (112) 69)
Regioselectivity
Rhodium; Carbon monoxide; Formic acid; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
Resins
Zeolites; Acidity; Hydrolysis; Acetals (Moreau, C. (112) 133)
Rhodium
Silica; Propene; Hydroformylation; Cobalt; Boron (Storaro, L. (112) 43)
Carbon monoxide; Formic acid; Regioselectivity; Alkene conversion; Aldehydes (El Ali, B. (112) 195)
Rhodium iodide
Ethene hydrocarboxylation; Propanoic acid (Kilner, M. (112) 327)
R-(+)-limonene
Dehydrogenation; Paracymene; Pd/SiO_2; Hydrogen transfer reaction (Lesage, P. (112) 431)
Ruthenium chloride
Carbon dioxide hydrogenation; Formic acid; Ruthenium complexes (Zhang, J.Z. (112) 9)
Ruthenium complexes
Carbon dioxide hydrogenation; Formic acid; Ruthenium chloride (Zhang, J.Z. (112) 9)
SCR reaction
Vanadia monolayer; Transient response technique; IR spectroscopy (Pinaeva, L.G. (112) 115)
Selective hydrogenation
Pt/Co bimetallic colloid; Cinnamaldehyde (Yu, W. (112) 105)
Selectivity
Isomerization; Hydrogenation; Allyl alcohol; Amorphous alloy; Copper–zirconium; Copper; Propanal; 1-propanol (Martinek, T. (112) 85)
Silica
Propene; Hydroformylation; Rhodium; Cobalt; Boron (Storaro, L. (112) 43)
Silica supported zirconium catalysts
Hydrogen transfer reduction; Alcohol oxidation; Ketone reduction (Leyrit, P. (112) 395)
SiO_2
EPR; Coordination state; Mo^{5+} ions; Phosphines; Molecular probes (Sojka, Z. (112) 469)
SiO_2-physisorbed $RhCo_3(CO)_{12}$
Stabilization of $RhCo_3$; Regeneration and dissociation of $RhCo_3(CO)_{12}$ (Huang, L. (112) 69)
Size exclusion chromatography
Catalyst support characterization; Pumice; Metal supported catalyst; Surface (Duca, D. (112) 413)
SO_2 adsorption
Acid–base properties; Metal oxides; IR spectroscopy; Catalytic activity (Ziolek, M. (112) 125)
Solvent effects
Hydrosilylating properties; Platinum/alumina; Temperature effects (Fort, Y. (112) 311)
Stability
Metallocenes; Photoconversion; Olefin polymerization (Kaminsky, W. (112) 37)
Stabilization of $RhCo_3$
SiO_2-physisorbed $RhCo_3(CO)_{12}$; Regeneration and dissociation of $RhCo_3(CO)_{12}$ (Huang, L. (112) 69)
Stereochemistry
Wacker; Isomerization; Oxidation; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)
Sulfur dioxide
Nitric oxide reduction; Copper; Isobutene; X-ray photoelectron spectroscopy; Environment (Lu, H. (112) 459)
Sulphur
Oxidation; Fenton reactions; Photocatalysis; Iron; Peroxide (Ansari, A. (112) 269)
Surface
Size exclusion chromatography; Catalyst support characterization; Pumice; Metal supported catalyst (Duca, D. (112) 413)
Surface characterization
NO reduction; Copper; Environment; Hydrocarbon oxidation (Lu, H. (112) 447)
Surface organometallic chemistry
Carene isomerization; Ni/SiO_2 catalyst; Tetra-*n*-butyl tin modified catalyst (Lesage, P. (112) 303)
TBHP
Epoxidation; Titanium silica; Non-activated alkenes (Cativiela, C. (112) 259)
Temperature effects
Hydrosilylating properties; Platinum/alumina; Solvent effects (Fort, Y. (112) 311)
Tetra-*n*-butyl tin modified catalyst
Carene isomerization; Ni/SiO_2 catalyst; Surface organometallic chemistry (Lesage, P. (112) 303)
Titanium silica
Epoxidation; TBHP; Non-activated alkenes (Cativiela, C. (112) 259)
TPD
TPR; Platinum oxide; Graphic plot (Hwang, C.-P. (112) 295)
TPR
TPD; Platinum oxide; Graphic plot (Hwang, C.-P. (112) 295)

Transient response technique
SCR reaction; Vanadia monolayer; IR spectroscopy (Pinaeva, L.G. (112) 115)
Tungsten
π-Allyl hydride intermediate; Isomerization; Metathesis; Bis(alkene) complexes (Szymańska-Buzar, T. (112) 203)
Vanadia monolayer
SCR reaction; Transient response technique; IR spectroscopy (Pinaeva, L.G. (112) 115)
Wacker
Isomerization; Oxidation; Stereochemistry; Modified catalyst; Palladium(II) (Francis, J.W. (112) 317)
Water
Calcium oxide; Hydroxyl group stretching frequencies; MINDO/3 study (Zhanpeisov, N.U. (112) 63)
XPS
Heteropolyacid; Keggin unit; Polymer; Polyaniline; Cumene cracking (Dziembaj, R. (112) 423)
X-ray photoelectron spectroscopy
Nitric oxide reduction; Sulfur dioxide; Copper; Isobutene; Environment (Lu, H. (112) 459)
Zeolites
Resins; Acidity; Hydrolysis; Acetals (Moreau, C. (112) 133)